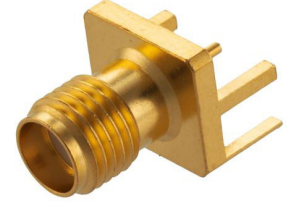


## SMA Female (Jack) Connector Solder Attachment PCB for 0.123 inch End Launch



### FMCN5253

#### Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: 0.123 inch End Launch
- PCB

#### Features

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

SMA Female Connector Solder Attachment for 0.123 inch End Launch, part number FMCN5253, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.2:1.

Fairview's SMA female PCB connector FMCN5253 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 18      | GHz   |
| VSWR                                 |         |         | 1.2:1   |       |
| Insertion Loss                       |         |         | 0.169   | dB    |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,500   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 3       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2       | mOhms |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| Impedance                            |         | 50      |         | Ohms  |

#### Mechanical Specifications

##### Size

|               |                      |
|---------------|----------------------|
| Length        | 0.559 in [14.2 mm]   |
| Width         | 0.374 in [9.5 mm]    |
| Height        | 0.335 in [8.51 mm]   |
| Weight        | 0.005 lbs [2.27 g]   |
| Mating Cycles | 100 Cycles           |
| Mating Torque | 4 in-lbs [[0.45 Nm]] |

## SMA Female (Jack) Connector Solder Attachment PCB for 0.123 inch End Launch



**FMCN5253**

### Material Specifications

| Description | Material         | Plating                      |
|-------------|------------------|------------------------------|
| Contact     | Beryllium Copper | Gold over Nickel over Copper |
| Insulation  | PTFE             |                              |
| Body        | Brass            | Gold over Nickel over Copper |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

Humidity

MIL-STD-202, Method 106

Thermal Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

SMA Female (Jack) Connector Solder Attachment PCB for 0.123 inch End Launch from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female \(Jack\) Connector Solder Attachment PCB for 0.123 inch End Launch FMCN5253](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/sma-female-0.123-end-launch-connector-fmcn5253.html>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

## SMA Female (Jack) Connector Solder Attachment PCB for 0.123 inch End Launch

